

## CLAIMS

What is claimed is:

1. A method for performing single frame backwards playback in a DVD system, the method comprising:
  - (a) receiving a signal indicating selection of a single frame reverse function;
  - (b) reconstructing frame data for a preceding frame of an original playback;
  - (c) utilizing memory sufficient to support the reconstructing step; and
  - (d) displaying the reconstructed frame data of the preceding frame.
- 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890
2. The method of claim 1 further comprising (e) determining whether another selection of the single frame reverse function has occurred.
3. The method of claim 2 further comprising repeating steps (b), (c), and (d) for a next preceding frame when another selection has occurred.
4. The method of claim 1 wherein the utilizing step (c) further comprises utilizing at least seven frame buffers.
5. A method for performing single frame reverse playback in a DVD system, the method comprising:
  - receiving a signal indicating selection of a single frame reverse function;
  - providing sufficient memory to store reconstructed frame data for a frame preceding a currently displayed frame; and

displaying the frame.

6. The method of claim 5 further comprising determining whether another selection of the single frame reverse function has occurred.

5

7. The method of claim 6 further comprising reconstructing a next preceding frame when another selection has occurred.

8. The method of claim 5 wherein providing sufficient memory further comprises providing at least seven frame buffers.

9. A DVD player system with single frame backwards playback capabilities, the system comprising:

15 a decoding engine for receiving a signal indicating selection of a single frame reverse function and reconstructing frame data for a preceding frame of an original playback; a plurality of frame buffers for storing frame data during the reconstructing; and a display device for displaying the reconstructed frame.

20 10. The DVD player system of claim 9 wherein the decoding engine further determines whether another selection of the single frame reverse function has occurred.

11. The DVD player system of claim 10 wherein the decoding engine reconstructs a next preceding frame when another selection has occurred.

12. The DVD player system of claim 9 wherein the plurality of frame buffers further comprises at least seven frame buffers.

13. The DVD player system of claim 9 wherein the DVD player system further comprises a PC-based DVD player.

14. The DVD player system of claim 9 wherein the DVD player system further comprises a game console-based DVD player.